

Site (Data) : Dnibr SE

Stock of waste as at December 2005

Country: UKRAINE

Reporting Year: 2005

Site Name: Dnibr SE

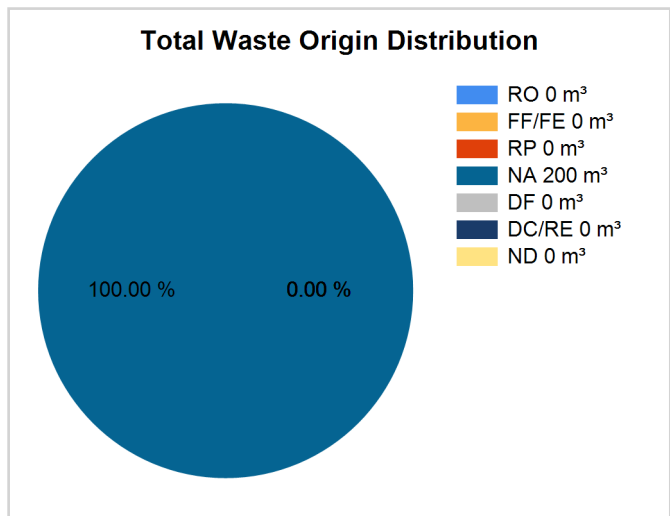
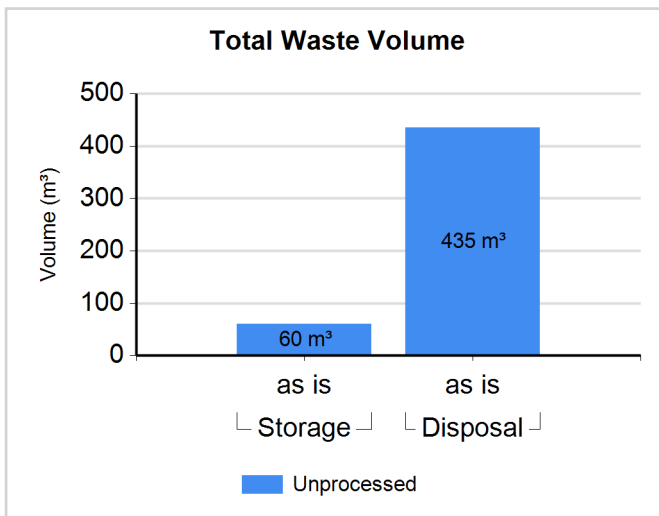
Full Name: Dnipropetrovsk State Interregion Special Enterprise

Inventory Reporting Date: December 2005

Waste Matrix Used: Ukraine

Waste Inventory

Est=distribution is an estimate, Proc.=Is the waste processed (Yes/No)? RO=Reactor Operations, FF/FE=Fuel Fabrication/Fuel Enrichment, RP=Reprocessing, NA=Nuclear Applications,DF=Defence, DC/RE=Decommissioning/Remediation, ND=Not Determined



Note: where volume "as dispo" is provided, volume "as is" is used in the graph instead.

Waste Class: Mid-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Mid-Active	Storage	N	N	60.000	60.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00
Mid-Active	Disposal	N	N	435.000	435.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Comment # 6803: The additional characteristics of the waste

Unprocessed: liquid (aqueous)

Spent Sources <=30 years in Disposition

Nuclide	Number of Sources/Total Activity of Sources (GBq)			c	o	n	d	c	u	n	c	o	n	d	Total Activity for all Groups (GBq)	Decay Date
	Group I less than or equal 4GBq	Group II more than 4GBq but less than or equal 4E+4GBq	Group III more than 4E+4GBq													
	num/activity	num/activity	num/activity													
Cd-109	9			N	Y	Y									3.370E+000	
	3.370E+000															
Cd-109	2			N	Y	Y									2.120E-004	
	2.120E-004															

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Ce-139	10			N	Y	Y	1.300E-003	
	1.300E-003							
Cf-252		2		N	Y	Y	2.400E+004	
		2.400E+004						
Co-57	41	2		N	Y	Y	1.660E+001	
	5.900E+000	1.070E+001						
Co-57	10			N	Y	Y	8.400E-003	
	8.400E-003							
Co-60	39			N	Y	Y	1.080E+001	
	1.080E+001							
Co-60	1239	19		N	Y	Y	7.262E+004	
	1.670E+001	7.260E+004						
Co-60		695		N	Y	Y	4.600E+004	
		4.600E+004						
Co-60	207			N	Y	Y	4.390E+000	
	4.390E+000							
Cs-137		4993		N	Y	Y	2.800E+005	
		2.800E+005						
Cs-137	510	1055		N	Y	Y	7.055E+004	
	4.520E+002	7.010E+004						
Cs-137	97			N	Y	Y	6.990E+001	
	6.990E+001							
Cs-137		119		N	Y	Y	7.500E+003	
		7.500E+003						
Fe-55	2			N	Y	Y	1.150E-002	
	1.150E-002							
Fe-55	6			N	Y	Y	1.010E+001	
	1.010E+001							
Fe-55	4			N	Y	Y	3.320E-001	
	3.320E-001							

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H-3	1118			N	Y	Y	2.300E+003	
	2.300E+003							
H-3	169			N	Y	Y	3.400E+002	
	3.400E+002							
H-3	1			N	Y	Y	1.010E-001	
	1.010E-001							
Hg-203	1			N	Y	Y	9.750E-006	
	9.750E-006							
Hg-203	14			N	Y	Y	5.010E+000	
	5.010E+000							
Ir-192		8		N	Y	Y	1.690E+004	
		1.690E+004						
Ir-192		122		N	Y	Y	7.000E+003	
		7.000E+003						
Ir-192	6			N	Y	Y	5.500E+000	
	5.500E+000							
Kr-85		2		N	Y	Y	9.800E+000	
		9.800E+000						
Mn-54	9			N	Y	Y	1.050E-003	
	1.050E-003							
Mn-54	1			N	Y	Y	4.740E-004	
	4.740E-004							
Na-22	1			N	Y	Y	5.950E-005	
	5.950E-005							
Na-22	7			N	Y	Y	6.660E-004	
	6.660E-004							
Na-22	1			N	Y	Y	3.550E-009	
	3.550E-009							
P-32	13			N	Y	Y	1.210E+001	
	1.210E+001							

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P-32	12			N	Y	Y	2.550E-001	
	2.550E-001							
Pm-147	306	3		N	Y	Y	1.642E+003	
	1.500E+000	1.640E+003						
Pm-147	44	2		N	Y	Y	5.193E+001	
	2.960E-002	5.190E+001						
Pm-147		310		N	Y	Y	1.900E+003	
		1.900E+003						
Pm-147	25			N	Y	Y	1.010E-002	
	1.010E-002							
Se-75	2			N	Y	Y	3.470E+000	
	3.470E+000							
Se-75	2			N	Y	Y	1.360E-002	
	1.360E-002							
Sn-113	10			N	Y	Y	1.370E-003	
	1.370E-003							
Sn-113	1			N	Y	Y	1.840E-005	
	1.840E-005							
Sr-90	85			N	Y	Y	5.750E+000	
	5.750E+000							
Sr-90	559			N	Y	Y	1.100E+003	
	1.100E+003							
Sr-90	8352			N	Y	Y	4.380E+001	
	4.380E+001							
Th-228	1			N	Y	Y	7.400E-001	
	7.400E-001							
Tl-204	48			N	Y	Y	2.980E+000	
	2.980E+000							
Tl-204	53			N	Y	Y	7.800E+000	
	7.800E+000							

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Y-88	12			N	Y	Y	1.430E-003	
	1.430E-003							
Y-88	1			N	Y	Y	1.100E-005	
	1.100E-005							
Zn-65	3			N	Y	Y	5.200E-005	
	5.200E-005							
Zn-65	8			N	Y	Y	9.240E-004	
	9.240E-004							

Spent Sources > 30 years in Disposition

Nuclide	Number of Sources/Total Activity of Sources (GBq)		c	u	c	a	t	Total Activity for all Groups (GBq)	Decay Date
	Group I less than or equal 2 GBq	Group II more than 2GBq							
	num/activity	num/activity							
Am-241	690		N	Y	Y	Y	4.520E+002		
	4.520E+002								
Am-241		199	N	Y	Y	Y	1.500E+003		
		1.500E+003							
Am-241		52	N	Y	Y	Y	6.690E+002		
		6.690E+002							
Am-241	262		N	Y	Y	Y	4.235E-001		
	4.235E-001								
Am-241		6	N	Y	Y	Y	2.098E+001		
		2.098E+001							
C-14	125		N	Y	Y	Y	1.800E-002		
	1.800E-002								
Ni-63	82		N	Y	Y	Y	7.400E-003		
	7.400E-003								
Ni-63	8		N	Y	Y	Y	2.950E-002		
	2.950E-002								

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Ni-63	51		N	Y	Y	1.528E+000	
	1.528E+000						
Pu-238	1		N	Y	Y	1.130E+000	
	1.130E+000						
Pu-238	1		N	Y	Y	3.560E-007	
	3.560E-007						
Pu-238		6	N	Y	Y	1.230E+001	
		1.230E+001					
Pu-238		2	N	Y	Y	7.400E+001	
		7.400E+001					
Pu-238	14		N	Y	Y	3.570E+000	
	3.570E+000						
Pu-239	20872	196	N	Y	Y	1.750E+003	
	9.800E+000	1.740E+003					
Pu-239	26848		N	Y	Y	3.500E+003	
	3.500E+003						
Pu-239	1700		N	Y	Y	5.370E+001	
	5.370E+001						
Pu-239	5708		N	Y	Y	1.914E+001	
	1.914E+001						
Ra-226	6		N	Y	Y	1.804E+000	
	1.804E+000						
Ra-226	4		N	Y	Y	4.840E-002	
	4.840E-002						
Ra-226	52		N	Y	Y	1.700E+000	
	1.700E+000						
Ra-226	32		N	Y	Y	1.070E+000	
	1.070E+000						
Th-232	1		N	Y	Y	9.040E-001	
	9.040E-001						

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U-233	1		N	Y	Y	8.360E-006	
	8.360E-006						
U-234	5		N	Y	Y	8.300E-007	
	8.300E-007						
U-235	1		N	Y	Y	1.020E-003	
	1.020E-003						
U-238	7		N	Y	Y	1.590E-005	
	1.590E-005						

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Multiple Nuclides SRS in Disposition

Nuclide	Activity of Sources (GBq)	cond	uncond	cat	Decay Date
Pu-238	9.500E-006	N	Y	N	
Pu-239	9.500E-006	N	Y	N	
U-233	1.900E-005	N	Y	Y	
Pu-238	1.000E-005	N	Y	N	
Pu-239	1.000E-005	N	Y	N	
U-233	2.000E-005	N	Y	Y	
Pu-238	1.000E-005	N	Y	N	
Pu-239	1.000E-005	N	Y	N	
U-233	2.000E-005	N	Y	Y	
Pu-238	9.450E-006	N	Y	N	
Pu-239	9.450E-006	N	Y	N	
U-233	1.890E-005	N	Y	Y	
Pu-238	9.400E-006	N	Y	N	
Pu-239	9.400E-006	N	Y	N	
U-233	1.880E-005	N	Y	Y	
Pu-238	9.000E-006	N	Y	N	
Pu-239	9.000E-006	N	Y	N	
U-233	1.800E-005	N	Y	Y	
Pu-238	1.035E-005	N	Y	N	
Pu-239	1.035E-005	N	Y	N	
U-233	2.075E-005	N	Y	Y	
Pu-238	1.090E-005	N	Y	Y	
Pu-239	1.090E-005	N	Y	Y	
U-233	2.180E-005	N	Y	Y	